CHINA AEROSPACE TELECOMMUNICATIONS LTD.

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CASTEL

GPS Tracker

GPS Tracking System

GPS Tracking Solutions

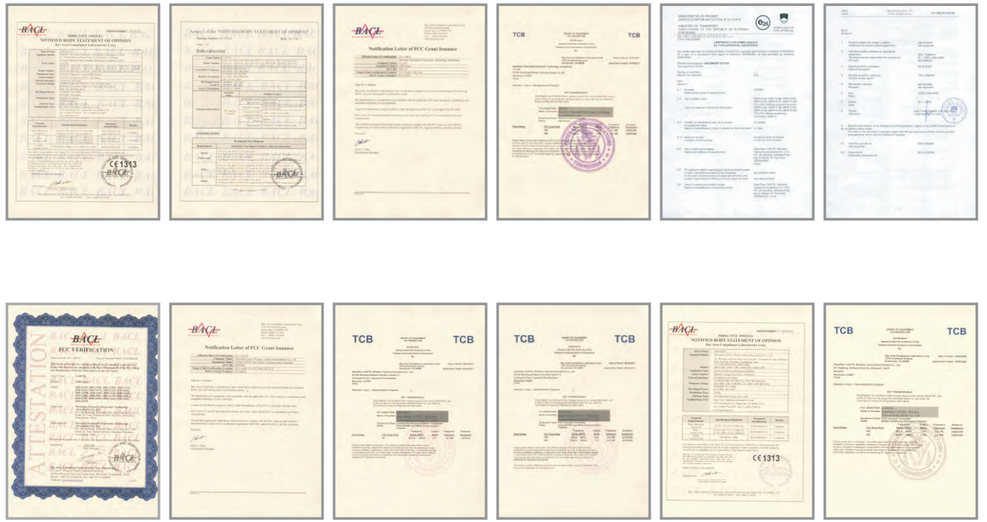
CHINA AEROSPACE TELECOMMUNICATIONS LTD.

Company Profile

China Aerospace Telecommunications Limited (Castel Group for short) was founded in 1997, it is a subsidiary of China Aerospace Science and Technology Corporation (CASC). Being one of the co-founders of China GPS Association, Castel Group has over 10 years of experience in developing technology for GPS and LBS application, wireless communication, and remote access. We are also actively engaging in R&D, manufacturing and provisioning of customized integrated solutions.

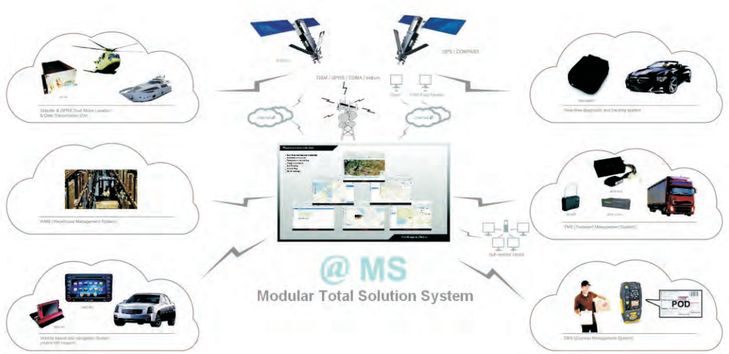
Factory

Qualification



CASTEL

Global Positioning System



Benefit

- Enhance fleet operation efficiency. Lower the labor cost
- Reduce non-working fuel consumption. Lower the maintenance cost
- Effective working schedule. Reduce the unpredictable events

Application

- Taxi,Public Transportation, Logistics Enterprise, Government Fleet rental vehicle and Ambulance. Even, The elderly, children pets,and all your valuable assets

GPS Tracking and Fleet Management System

Features

- Browser application. Not require client-side program
- Platform independent. Can be used in most of the computers and handheld devices
- Fleet monitoring in anytime and everywhere (Only required internet access)
- Provide global map
- Provide industrial standard interface. Seamlessly integrate with other systems
- Advanced technology, high stability and reliability
- Userfriendly operation
- Support most of the industrial application (eg. Logistics, Public transportation, etc.

Function

- Real time tracking
- Historical tracking
- Geo-Fence
- Report generation for different management purpose
- Advanced safety and dispatching functions
- Allow peripheral device extension such as temperature sensor and LCD display (Optional)

CASTEL

MPIP-618W-A

A professional GPS tracker combines with OBD diagnostic module for passenger car&commercial vehicle .
Can do location tracking,theft tracing,vehicle diagnostic analysis,fuel consumption . Statistics, fuel left reading,mileage statistics,maintenance reminder,driving behavior analysis and RFID attendance statistics,eytc.
Standard OBD port （16P/9P/6P）leads to quick&easy installation to all kinds of private cars and commercial vehicles.

The most popular and multi-functional vehicle terminal with various accessories and functions of vehicle diagnostic analysis and attendance management solutions.

Features

Easy installation,Plug-n-play.
Compatible to OBD protocols of passenger Car& Commercial Vehicle
GPS location tracking
Vehicle diagnostic analysis
Mileage statistics
Maintenance reminder
Fuel consumption statistics
Remaining fuel reading
Real-time location tracking
Data storage in blind area and resend subsequently
Remote power cut-off
Monitoring,hands-free call

Technical Specifications

Dimension	66mm (W)*30mm (H)*110mm (L)
Weight	260g
Protective leverage	Aluminum IP30
Working voltage	9V-36V DC
Backup battery	3.7V/600mAH lithium battery
Normal currency	85mA Stand-by power
Max.currency	<250mA@13.8V (Not including accessories)
Working temperature	-30℃ ~ +70℃
GSM frequency	Quad- band GSM 850/900/1800/1900MHz

Data	GPRS
Positioning mode	GPS (Global Positioning System)
GPS chipset	SIRF 3 high sensitivity chipset
Positioning speed accuracy	≤0.1m/s
Positioning location accuracy	≤15m
SOS button/LED indicator	LED Indicator /SOS
Certificates	FCC, CE, E-Mark
I/O port	5 input(4 digital switching or analog input, 1 digital switching input)

Optional accessory

Accessory	Model Num.	Standard	Optional
Power cable	W-CP3	Yes	
Multi-functional cable	W-CM10	Yes	
G-mouse	166	Yes	
Car fuse	FUS3A	Yes	
SOS button	SOS	Yes	
GSM antenna	GSMA	Yes	
CD(user manual)	CD	Yes	
Camera (1 with 4)	CAM-14-R4		Yes
Camera (1 with 3)	CAM-13-R4		Yes
LCD screen	LCD16		Yes
Handset	HDS18		Yes
Handset(LCD Screen) convertor	C8-15		Yes
Microphone	MIC3m		Yes
Handsfree speaker	SPK42		Yes
Relay	RLY12		Yes
Temperature sensor	TMS-176-R4		Yes
Fuel sensor	GAS-Z70-R4		Yes
Fuel sensor calibrator	GASJ-Z70		Yes
USB serial port cable	CUSB		Yes
HT-196R	196R		Yes
HT-196	196		Yes
HT-192B	192B		Yes
192B convertor commercial vehicle(16pin)	C192B-16		Yes
192B convertor commercial vehicle(9pin)	C192B-9		Yes
192B convertor commercial vehicle(6pin)	C192B-6		Yes

Scope of application

Logistics industry

Public transport industry

Driving school

Luxury car

Tourist industry

CASTEL

SAT-802S

SAT-802S is dual mode Iridium&GSM tracker that combines with Iridium SBD and GPRS to send gps data globally.
It is suitable for global vessel tracking solutions at lower cost by its intelligent working mode. Best choice for Air,Sea,Mountain,Desert,etc,anwhere on earth.Full coverage in Global.No Blind Area.

Features

Dual mode communication: Iridium SBDand GPRS.
Auto choose communication channel,GPRS is top priority.
Global GPS location tracking
Global text message transmission
Relative lower monthly cost
SOS
Geo-fence
Dual RS232 extend: temperature sensor,3 channel camera,LCD screen
5 I/O
OTW wireless upgrading
Air ,Sea ,Mountain Desert ,etc, anywhere on the earth ,Full coverage in Global ,No Blind Area.
Leverage on GSM and Iridium satellite networks,able to switch automatically,depending on GSM

Technical Specifications

Dimension	230mm (W)*230mm (H)*69mm (L)
Data transmission	Iridium SBD and GPRS communication
Protective leverage	Aluminum IP65
Working voltage	9V-36V DC
Max.currency	<450mA@13.8V(transient peak current:2W) Network communication protocol:embedded TCP/IP protocol stack,support TCP/IP.
Working temperature	-30℃～＋70℃
Shell material	PC+ABS（PC30% ABS70%）
Iridium model	Iridium 9602

Frequency	1616 ～ 1626.5 MHz
Iridium upstream data	maximum length is 340bytes
Transmission delay	10-60 seconds(because of galaxy switch)
Iridium downstream data	maximum length is 270bytes
GSM model	SIMCOM SIM340DZ
GSM/GPRS frequency	850/900/1800/1900MHZ quad-band
GPS model	50channel u-blox 5 engine
GPS position accuracy	10M
Position mode	GPS

Optional accessory

Accessory	Model Num.	Standard	Optional
802S power cable	S-CP12	Yes	
Iridium antenna (round)	IMA	Yes	
GPS antenna	GPSA	Yes	
CD(user manual)	CD	Yes	
Camera (1 with 3)	CAM-13-R2		Yes
LCD screen	LCD16		Yes
Handset	HDS18		Yes
Handset(LCD Screen) convertor	C9-15		Yes
Microphone	MIC3m		Yes
Handsfree speaker	SPK42		Yes
802S external audio serial port	ASPS		Yes
Buzzer	BUZ12		Yes
Relay	RLY12		Yes
Temperature sensor	TMS-R2		Yes
SOS button	SOS		Yes
Iridium antenna(square)	IFA		Yes

Scope of application

Truck (mining truck, cross-border vehicle)

helicopter (medicine, off-shore oil, tour and air-taxi service) ,

ship (yacht, container ship)

Luxury car

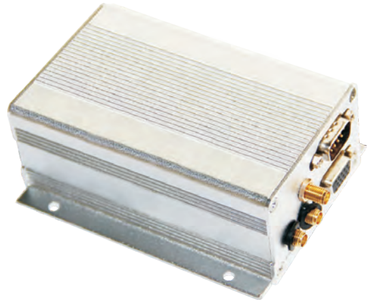
CASTEL

SAT-802

SAT-802 is dual mode Iridium&GSM tracker that combines with Iridium SBD and GPRS to send gps data globally.

It is suitable for global vehicle tracking&fleet management solutions at lower cost by its intelligent working mode.

Best choice for Air,Sea,Mountain,Desert,etc,anwhere on earth.Full coverage in Global. No Blind Area.



Features

Dual mode communication: Iridium SBDand GPRS.
Auto choose communication channel,GPRS is top priority.
Global GPS location tracking
Relative lower monthly cost
SOS
Geo-fence
Dual RS232 extend:temperature sensor,3 channel camera,LCD screen
5 I/O
OTA wireless upgrading
Air,Sea,Mountain,Desert,etc,anwhere on earth.Full coverage in Global,No Blind Area.
Leverage on GSM and Iridium satellite networks,able to switch automatically,depending on GSM

Technical Specifications

Dimension	86mm (W)*43mm (H)*113mm (L)
Data transmission	Iridium SBD and GPRS communication
Protective leverage	Aluminum IP30
Working voltage	9V-36V DC
Max.currency	<450mA@13.8V(transient peak current:2W) Network communication protocol:embedded TCP/IP protocol stack,support TCP/IP.
Working temperature	-30℃ ~ +70℃
Shell material	Aluminum
Iridium model	Iridium 9602

Frequency	1616 ~ 1626.5 MHz
Iridium upstream data	maximum length is 340bytes
Transmission delay	10-60 seconds(because of galaxy switch)
Iridium downstream data	maximum length is 270bytes
GSM model	SIMCOM SIM340DZ
GSM/GPRS frequency	850/900/1800/1900MHZ quad-band
GPS model	50channel u-blox 5 engine
GPS position accuracy	10M
Position mode	GPS

Optional accessory

Accessory	Model Num.	Standard	Optional
802 power cable	S-CP15	Yes	
GSM antenna	GSMA	Yes	
Velcro(802)	M3M	Yes	
SOS button	SOS	Yes	
Iridium antenna(square)	IFA	Yes	
GPS antenna	GPSA	Yes	
CD(user manual)	CD	Yes	
Camera (1 with 3)	CAM-13-R2		Yes
LCD screen	LCD16		Yes
Handset	HDS18		Yes
Handset(LCD Screen) convertor	C9-15		Yes
Microphone	MIC3m		Yes
Handsfree speaker	SPK42		Yes
802 external audio serial port	ASP		Yes
Buzzer	BUZ12		Yes
Relay	RLY12		Yes
Temperature sensor	TMS-R2		Yes
Iridium antenna (round)	IMA		Yes

Scope of application

Truck (mining truck, cross-border vehicle)

helicopter (medicine, off-shore oil, tour and air-taxi service) ,

ship (yacht, container ship)

Luxury car

CASTEL

IDD-213T

IDD-213T is a certified quad-band, 3-axis accelerometer and GPS integrated OBD GPS Tracker. Only need to plug it on OBD II interface, it will provide real-time tracking and monitoring solutions for fleet management, insurance, or car leasing etc.

Features

Compact design, plug-and-track function
Real-time tracking and history trace replay
Data storage in blind area and upload automatically when GPRS network recover
Geo-fence
Mileage
Abnormal alerting: speeding and low voltage alarm etc
SMS Location Inquiry
GPRS & SMS Dual mode communication

Technical Specifications

Dimension	50mm(L)x 28mm(W)x 63mm(H)
Weight	50g
Storage flash	2MB,can store 24000GPS points data
Communication mode	GPRS/SMS
Position	GPS/A-GPS
Working voltage	9-36VDC
Normal currency	<150mA@3.8VDC
Max.currency	<200mA@13.8VDC
Sleep mode currency	<10mA@12VDC
Internal battery	3.7V/150mA Lithium battery

GSM frequency	850/900/1800/1900MHz Four frequency
GPS channels	50
Sensitivity	-160dBm
Accuracy	5m CEP
Cold start	<32s
Hot start	<1s

Optional accessory

Accessory	Model Num.	Standard	Optional
User manual	Book-213T	Yes	
Set the USB line	CUSB-5		Yes
GPS external antenna	GPSA-2		Yes
OBD Extension cord 16P(9)	C212G-16		Yes
OBD Extension cord 9P	C212-9		Yes
OBD Extension cord 6P	C212-6		Yes

Scope of application

Fleet management and vehicle tracking

Car rental industry

Vehicle insurance

CASTEL

IDD-212GL

IDD-212GL is designed for real-time vehicle diagnostic and tracking purpose. It comes with quad-band GSM/GPRS function and an external GPS (G-mouse or HT-196 versions) available for tracking. It could read OBD parameters from car ECU and capture GPS data via the external GPS then transmit to the backend server for remote diagnostic and tracking purpose.
For 212GL with HT-196 version,sharp turning ,quick-line change ,impact alarm ,RFID ID check can be achieved.

Features

Compact design, plug-and-play,
Compliant with all cars with OBD II
Diagnostic trouble codes OBD code monitoring
Engine live data reading including RPM, speed, ECT, MAF, TP etc
Real-time alarm for the hard acceleration, hard deceleration, idle engine, speeding
Quick turning, quick change lane, collision etc (HT-196,optio nal)
Real time location tracking and history trace replay
Fuel consumptions monitoring
Mileage
RFID driver ID checking (HT-196R,optional)
Low voltage monitoring

Technical Specifications

Dimension	50mm(L)x 28mm(W)x 63mm(H)
Weight	50g
Protocols	SAE J1850 PWM ,SAE J1850 VPW , ISO9141-2,ISO 14230-4 ,ISO 15765-4,J1939 ,J1708
Working voltage	9-36 VDC
Normal currency	<150mA@13.8VDC
Max. currency	<200mA@13.8VDC
Sleep mode currency	<10mA@12VDC
Internal battery	3.7V/120mAH
Working temperature	-30℃ ~ +70 ℃
Storage temperature	-40℃ ~ +85 ℃

Humidity	5%～95%（no frog）
GSM frequency	850/900/1800/1900MHz
Communication protocol	Embedded TCP/IP stack
GPS channels	50 Parallel Channels
Position mode	GPS and AGPS
Cold start	29s(Typical)
Warm start	29s(Typical)
Hot start	<1s(Typical)
Assist mode	<1s(Typical)
Position accuracy	1~5m(Typical)
Tracking sensitivity	-160dBm(Typical)

Optional accessory

Accessory	Model Num.	Standard	Optional
GMOUSE	166-2	Yes	
User manual	Book-216G	Yes	
Set the USB line	CUSB-4		Yes
HT-196R	196R		Yes
HT-196	196		Yes
OBD Extension cord 16P(9)	C212G-16		Yes
OBD Extension cord 16P(8)	C212-16		Yes
OBD Extension cord 9P	C212-9		Yes
OBD Extension cord 6P	C212-6		Yes

Scope of application

Fleet management and vehicle tracking

Car rental industry

Vehicle insurance

Driving school

Car service shop

CASTEL

Function Comparasion Sheet

Function	Model				
	SAT-802	SAT-802S	MPIP-618W-A	IDD-213T	IDD-212GL
Iridium communication(global data transmission)	√	√			
GSM+GPS	√	√	√	√	√
Dimension	86*43*113mm	230*230*69mm	66*30*110mm	50*28*63mm	50*28*63mm
Weight	290g	750g	260g	50g	50g
Waterproof	IP30	IP65	IP30	IP30	IP30
Easy installation	√	√	√	√	√
Global Position Tracking	√	√	√	√	√
Track on demand	√	√	√	√	√
Tracking by time interval	√	√	√	√	√
OBD communication protocol			√		√
Diagnostic analysis			√		√
Package upload	√	√	√		
Mileage statistics	√	√	√	√	√
Maintenance reminder			√	√	√
Fuel comsumption statistics			√		√
Low voltage alarm			√	√	√
SMS alarm			√	√	√
Abnormal water temperature alarm			√		√
High RPM alarm			√		√
Fatigue alarm			√	√	√
SOS alarm	√	√	√		
Speeding alarm	√	√	√	√	√
Route section speeding alarm			√		
Route yaw alarm			√		
Geo-fence	√	√	√	√	√
ACC ON/OFF alarm	√	√	√	√	√
Blind area store/resend	√	√	√	√	√
Call center command	√	√	√	√	√

Function	Model				
	SAT-802	SAT-802S	MPIP-618W-A	IDD-213T	IDD-212GL
Temperature measurement	√	√	√		
RFID Attendance statistics			√	√	√
Backup battery			3.7V/600mAH	3.7V/150mAH	3.7V/120mAH
Intelligent power saving mode	√	√	√	√	√
OTA	√	√	√	√	√
Data transmission	√	√			
Digital/analog input	5	5	4		
Digital input(negative trigger)			1		
Output control	1	1	2		
Percentage of remaining fuel			optional		
Door open alarm			optional		
Relay(Enigine cut off)	optional	optional	optional		
Buzzer	optional	optional			Built-in
Setting cable	optional	optional	optional	optional	optional
Microphone&speaker	optional	optional	optional		
Handset	optional	optional	optional		
External camera	optional(1&3 channel)	optional(1&3 channel)	optional(1&4 channel)		
LCD screen	optional	optional	optional		
Temperature sensor	optional	optional	optional		
Fuel sensor			optional		
Fuel level corrector			optional		
HT-196R(RFID)			optional		optional
HT-192B(OBD)			optional		
OBD extension cable(16P)			optional	optional	optional
OBD extension cable(9P)			optional	optional	optional
OBD extension cable(6P)			optional	optional	optional
Certificates	FCC/CE/E-Mark	FCC/CE/E-Mark	FCC/CE/E-Mark		FCC/CE/E-Mark

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